

# Portapump

## 24/28V PORTABLE FUELLING/DE-FUELLING

The Portapump unit is a rugged, all-weather fuel pump designed for the rapid fuelling or defuelling of all types of aircraft or vehicles using jet A1 or diesel with a flash point above 37°C.

It is designed to be easily transported by aircraft, helicopter or vehicle. Able to be carried by a single person, it uses a powerful 24–28 volt DC motor direct coupled to a high-speed pump with phosphor bronze sliding vanes.

The power source can be any 24/28 volt supply such as a portable GPU, vehicle battery or aircraft DC bus. Alternatively a 110/220 volt domestic utility supply can be used with a DC voltage converter.

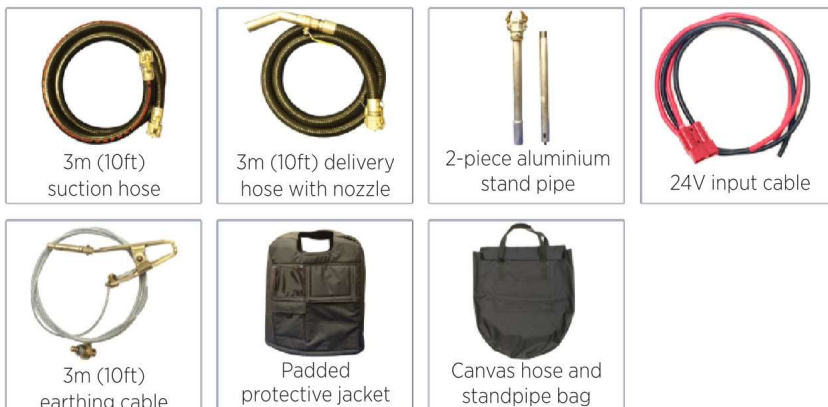
Fuel drums or containers that would otherwise require a settling period after transport to allow fuel/water separation can be pumped immediately. Fuel drained from aircraft, which would otherwise have been discarded, can safely be re-used once passed through the Portapump.

An inlet non-return valve prevents drainback (siphoning) and maintains the back pressure to allow activation of the pressure-operated switch that shuts off the pump motor.

Normal pumping is indicated by a reading of approximately 5 PSI on the gauge. Progressive filter blocking is indicated by a gradual rise in differential pressure. At approximately 15 PSI the coalescer filter cartridge should be removed and replaced if necessary. A drain tap is fitted to allow any collected water to be removed daily.

All pipework and fittings are alloy or stainless steel with 'Camloc' quick release fittings to give rapid connect/ disconnect of inlet and outlet hoses.

### Supplied as standard with



# Portapump

## Specifications

Suitable only for jet A1 and diesel

### Aviation/military standard equipment

Case construction	All-welded stainless steel tubular open space frame
Dimensions mm	H 490 (19in) W 360 (14in) D 330 (13in)
Weight	27.5kg (61lbs) without hoses and power lead
Power requirement	24-28 volt DC, 14 amps peak. Power lead: 3 metres (10ft) of 4mm (0.16in) twin-core - connects to pump with polarized quick release plug
Switching	On/Off switch, guarded by 15A pop-out circuit breaker
Filter warning	Indicated by three warning LEDs - Green, Yellow, Red
Static bonding	1000 amp cast brass alligator clips with 5 metres stainless steel bonding wire. Clips to any part of the space frame
Pump	Positive displacement sliding vane pump, giving 100 litres (26.4 gallons) per minute nominal at 1.5 metres (4.9ft) head approx
Pump motor	24V DC - motor 340 watts
Filter performance	Aviation fuel filter system gives clean, filtered fuel to 5 micron filtration with 98% efficiency and water separation to less than 2 parts per million
Filter capacity	Holds 1.1 litres (2.3 pints) of water. Removes up to 0.64kg (1.4lbs) of impurities
Hose (Suction side)	Supplied on suction side with 3 metres (10ft) of 1¼ inch hose, fitted to a 865mm (34in) 2-piece aluminium standpipe for use with standard 200 litre (45 gallon) drums
Hose (Delivery side)	3 metres (10ft) of 1¼ inch pump to nozzle. Delivery nozzle full-flow type with pump automatic cut-off via back pressure operated switch
Couplings	Quick-release 1¼ inch camlock type with protective blanking covers to prevent the ingress of contaminants or residual fuel spillage
Nato stock number	NCAGE: KD628      NSN: 2910-99-297-6913

## Features

- Stainless steel tubular frame construction
- Filters to 5 microns solids, and 2 parts per million water
- Three warning LEDs to alert operator of system status
- Reverse polarity alarm
- Fitted with replaceable Facet filter cartridge
- All hoses and pipework supplied with camlock covers or bungs
- Easy servicing - no tools required for filter inspection

## Optional extras



## Other ground power units available from AERO Specialties



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